

Date: Wed, 14 Jul 93 12:52:14 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #853
To: Info-Hams

Info-Hams Digest Wed, 14 Jul 93 Volume 93 : Issue 853

Today's Topics:

 America's Technology Store (was: new Radio Shack HT)
 Communities that unduly restrict Amateur Radio operations
 G5RV Antennas
Hearing CW in strange places (was: Old Hams never die, They just ...)
 Kenwood TH-28A and TH-78A
 Part 97
 rsgb gb2rs news 11th july
 special abbreviation?
 TS-50
 Yaesu FT-530 or Alinco DJ-580T?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 13 Jul 1993 16:51:06 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!sdd.hp.com!caen!rphroy!
kocrsv01!c2xjcb@network.UCSD.EDU
Subject: America's Technology Store (was: new Radio Shack HT)
To: info-hams@ucsd.edu

I'm sure it was just a case of mis-understanding what I said, but last
night I went into Radio Shaft to buy a 6V lantern battery (the large
"brick" with the spring posts on top) . . . the sale person "puppy
dogged" up to me and asked "Is there anything I can help you find?" .
. . to which I replied "6V lantern batteries!". . . he immediately
walked over to and reached towards the flashlight BULBS and asked "Is
it a screw-in or a bayonet base?". When I repeated "Batteries" he

stopped for a few seconds, so I added "The thing that SUPPLIES the power, not USES it!" and he finally got it!

--

James C. Bach	Ph: (317)-451-0455	The views & opinions expressed
Advanced Project Engr.	GM-NET: 8-322-0455	herein are mine alone, and are
Powertrain Strategy Grp	Amateur Radio: WY9F	NOT endorsed, sponsored, nor
Delco Electronics Corp.	Just say NO to UNIX!	encouraged by DE or GM.

Date: 14 Jul 93 16:43:51 GMT
From: ogicse!uwm.edu!linac!sunova!fnnews.fnal.gov!usenet@network.UCSD.EDU
Subject: Communities that unduly restrict Amateur Radio operations
To: info-hams@ucsd.edu

In article <1993Jul12.200632.23803@pixar.com> Bruce@Pixar.com (Bruce Perens) writes:

>For instance, I'd never consider a home in a community with antenna
>restrictions. However, I'd like to know if there's been any other anti-ham
>activity in that community before I purchase a home there.

>If such a list were online for FTP access, it would be easy enough to
>organize it as a hierarchical directory tree, with 50 directories for
>U.S. states, each containing directories for counties, which would contain
>files for each community where there had been anti-ham activity. It would
>be easy enough to make this accessable via a mail server for the amateur
>packet network, as well.

For what it's worth, I think you need to be cognizant of title restrictions and restrictive deed covenants as well as local "anti-ham" ordinances. I have been looking for the last six months for a suitable property on which to build a new residence in Kane County, Illinois (about 40 miles west of the Chicago Loop). My understanding is that if I have the money to plant the steel I can go to a couple hundred feet in unincorporated Kane (still have to verify this at the county building dept.) but I have found only one subdivision that will allow me to construct an outdoor HF antenna. I didn't bite because it's in a mediocre school district.

A restrictive covenant is a document generated by the developer that is recorded with the deed for a property. It is supposed to be used to "preserve" the "character" of the subdivision. In the past the covenants would cover things like minimum building squarefootage, building set-backs, no raising of chickens and pigs in back yards, no rusted pick-up trucks on concrete blocks in the driveway, etc. However, in recent years they have been expanded to exclude everything other than a stereotypical suburban home. These things are drafted by

real estate lawyers as standardized "boiler plate" and now the standard form (at least in my travels) always includes a specific prohibition of outdoor antennas and towers, except, in areas without cable, TVRO dishes, which are now very middle class items (they like their vegetables but not their hams). The most insidious device I've come across is "architectural review". The farmer who is cashing out his cornfield sets up himself, his wife, and their "successors and assigns" as the subdivision's architectural review and aesthetics overseers. Before
ANY structure can be built in the subdivision (including your house!), the review committee must approve the plans. Of course, when I ask if an HF antenna is architecturally acceptable the inevitable response is in the negative.

Please be aware that your acceptance of all covenants is implicit in your purchase of the property and that your neighbors have the right to bring civil action to coerce your compliance. This is completely separate and apart from any local zoning and building regulations. The duration of these nasty documents is generally 25 to 30 years from the date of the platting of the subdivision and they are binding on any subsequent purchaser. Thus you can get burned even if you buy an existing house from an individual homeowner. Zoning variances are possible (not easy) to get, and favorable changes to the regulations can happen (but only with A LOT of local ham effort) since they are legislated by the municipality or county. You're stuck when it comes to turkey deed restrictions. Fortunately, development plans and documents are public records and are available from the county plan commission and from the county recorder's office. Yes, it is a lot of leg work.

As a consequence of the foregoing, I have adopted the following policies and strategies to deal with the general anti-ham bias found in communities which I am otherwise financially capable of living in:

- 1) My first question is "How much?". My second question is "I need a copy of the restrictive covenants.". When they ask "Why do you want that? It's just the usual stuff.", I do not reveal my desire erect a sky-needle. I insist on the actual document. Verbal assurances are worth nothing and "no" is always the easiest answer, especially when "normal" buyers representing an easy, no effort sales commission are

plentiful.

2) I do not inquire any further on a parcel if I find a potential restriction. In addition

to outright prohibitions and architectural review, this can include clauses like "no outbuildings shall exceed sixteen feet in height or be greater than 400 square feet." Any additional effort is a waste of my time.

3) The documents for any promising parcel will be reviewed by an attorney who is familiar

with real estate law as it affects hams before I will make any commitment whatsoever. If this means a trip to the recorder's office to get the documents, then so be it. I am working with a Chicago area attorney who is a ham and who has handled a number of area antenna cases. The typical real-estate-closer is not an acceptable substitute for a competent specialist and the specialist is well worth his fee.

4) I will try to confine my search to older subdivisions that are less likely to have

anti-ham restrictions and to more rural areas. Even though I have a lot of big-city in me, this means I will consider moving as far out as the flatlands of DeKalb County, Illinois (60 mi. west of the Loop).

I've been through one tower hassle at a previous residence and, by doing my bookwork up front, I hope to never have another.

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+-----+
|  Paul Kasley  |
|   wa9vyb     |
+-----+
```

Date: 14 Jul 93 19:55:24 GMT
From: news-mail-gateway@ucsd.edu
Subject: G5RV Antennas
To: info-hams@ucsd.edu

The demon-mailer bounced my last two messages so these are combined.

>I have a shortened (51 ft) G5RV that really gets out on 20 and 40
>meters and but isn't all that great on 10 and 15 meters.

>Paul WB2OYC

Paul, I've been down the same road. I started with a G5RV and was disappointed. I now have something akin to a G5RV and I am very happy with it. Here's what I found:

At and above the frequency that is a center-fed full-wave (18.4 MHz for 51 feet), there is no broadside radiation to speak of. The radiation tends to concentrate into four lobes instead of two like a dipole. When I realized that fact and oriented my antenna accordingly, far away signals started coming in like magic. If your antenna runs North/South, your 10 meter radiation will be approximately North-42 deg-East, North42West, South42East, and South42west at a very low (12 deg) takeoff angle which will skip over a lot of "local" areas on 10 meters. It has a gain around 8.7 dBi in four directions. Oriented properly, those four directions will cover most of the land area on this planet.

TV twin-lead is not a good choice for this antenna. You need the least lossy feed-line possible. Open-wire feed-line is best but 300 ohm ladder-line is OK. G5RV antennas and all the variations do not violate the laws of physics. A good antenna program will give you an idea of what the impedance of an antenna is. You can use a Smith Chart to estimate the impedance at the coax/twin-lead junction and then at the end of the coax. It can be extremely high or extremely low but it will not likely be 50 ohms resistive.

>The length of the shortened G5RV is 51 feet with 17 feet of ladder
>line to match it. I tried doing some calculations as to why 20 and 49
>load up so well. What I came up with was that the 51 foot G5RV was a
>3/4 wave 20 meter antenna and a 3/8 wave 40 meter antenna. Strangely
>enough the antenna is 1 1/2 waves on 10 meters but doesn't seem to work
>all that well. This discussion got me to wondering what makes an antenna
>a good radiator outside of the height and ground effects? If height and
>ground is all that it took then a dummy load at 10000 feet would work great!
> Jeff Jones AB6MB

The 29.5 MHz feed-point impedance at the center of the antenna is around $100 + j10$ which gives a 3/1 SWR on the 300 ohm line. Assuming a .82 velocity factor in the 300 ohm line, the transformed impedance at the end of 17' will be around $500 + j400$, a terrible match for 50 ohm coax. SWR will be 18/1 in the coax so you will lose half your power for every 50' of coax. A 1/1 balun won't change things... a 4/1 balun will give a better match on 10 meters but possibly a worse match on some of the other bands.

I learned all this the hard way and took time to understand the theory afterward. I now run a 105' center-fed with 300 ohm

ladder-line directly into a balanced antenna tuner and it works great. These antennas are usually non-resonant at the frequencies of operation and have a very high SWR. A very high SWR is of no consequence in a lossless transmission line so get as close to lossless as possible. This precludes the use of coax like RG-58.

73, KG7BK, CECIL_A_MOORE@ccm.hf.intel.com at Internet_Gateway

>If your antenna is only 51 feet long total, then its not a G5RV.
>Rather, its an adaptation of the original design by someone else.
>73, Paul

Paul, AntennasWest publishes a 36 page \$7 TechNote #124d on G5RV antennas. In Table 2, they have "G5RV TYPE, Leg Length: Double Size = 102', Full Size = 51.3', Half Size = 25.9', Quarter Size = 13.3'". They have assumed there are different "types" and "sizes" of G5RV antennas. I have an article written by G5RV, himself, that says it is best not to use any coax on a G5RV antenna. The term "G5RV Antenna" now seems to represent a whole family of variations. 73, Cecil, KG7BK

>so...back to coax that survives the (ice) slides...73 from the Land
>of the Frozen Chosen, --Joel - KC1SG--

Hey Joel, living in Arizona, I entirely forgot about the advantages of coax during ice slides. If your SWR is high enough, it will even melt 'em. Coil your coax across your driveway and never have to shovel snow! 73, Cecil, KG7BK

Date: Wed, 14 Jul 93 12:49:58 GMT
From: mnemosyne.cs.du.edu!nyx!lkollar@uunet.uu.net
Subject: Hearing CW in strange places (was: Old Hams never die, They just ...)
To: info-hams@ucsd.edu

>> David Adams (dadams@cray.com) wrote:
>> : Several people have mentioned hearing CW in referigerator motors or
>> : other static, and suggesting the ghosts of past hams haunting
>> : old equipment.

That happened to me one Saturday morning. My wife was in the "office," a room next to our bedroom that contains her computer and (until recently) my radios. I was in bed, half awake, and kept hearing what sounded like low-pitched CW coming out of the office (there was an opening between the two rooms at the time).

So I'm laying there, simultaneously trying to copy this CW with no luck

and wondering why my wife (no call and not interested) has the radio on!

This went on for about 5 minutes until I realized what I was hearing was the floppy drive on her Macintosh! Boy did she laugh when I told her about it...

--

Larry Kollar, KC4WZK | 'finger lkollar' for ham-related interests.
lkollar@nyx.cs.du.edu | "Didn't vote for the lottery - won't play it."
"[The media] tore down Bush, now they're trying to tear down Clinton.
Are they trying to destroy the presidency?" - Barry Goldwater

Date: 14 Jul 93 19:03:17 GMT
From: news-mail-gateway@ucsd.edu
Subject: Kenwood TH-28A and TH-78A
To: info-hams@ucsd.edu

I am a new ham looking for a good HT (2m or dualbander). I have read recently many posts on the latest Yaesu and Alinco HTs and was wondering how good are the kenwood TH-28A and TH-78A. I find those models interesting because of the alphanumeric message paging system. Any comments will be greatly appreciated.

73's de XE1RGL

Guillermo

Date: 14 Jul 93 12:43:24 GMT
From: agate!howland.reston.ans.net!newsserver.jvnc.net!netnews.upenn.edu!dsinc!wells!edw@ames.arpa
Subject: Part 97
To: info-hams@ucsd.edu

Does anybody have Part 97 online? If so, could you please send it to me via Email..... edw@wells.com

Thanks.

--

=====
Edward E. Wells Jr., N3IAS, President Voice: (215)-943-6061
Wells Computer Systems Corp., Box 343, Levittown, Pa. 19058
{wells.com,dsi.com,dsinc,bcccix,francis}!wells!edw

Date: Wed, 14 Jul 1993 12:29:35 GMT
From: pipex!uknet!brunel!xxxxajh@uunet.uu.net
Subject: rsgb gb2rs news 11th july
To: info-hams@ucsd.edu

In article <742288454snz@tedb.demon.co.uk> ted@tedb.demon.co.uk (Edward Batts) writes:

Lots of stuff deleted:-

>We know of two rallies taking place today, Sunday the 11th of July:

>

>The Horncastle Amateur Radio Electronic and Computing Fair is being held at
>the Queen Elizabeth Grammar School Sports Hall, Horncastle, Lincolnshire. The
>event features clubs stands and a bring & buy stall. Catering facilities are
>available on site, run by the Horncastle Youth Club staff and members. Talk-in
>will be on channel S22. The Sussex Amateur Radio and Computer Fair is being
>held at Brighton Racecourse. Doors open at 10.30am. There are trade stands and
>a bring and buy stall. Refreshments are available and there is also a picnic
>area close by.

>We know of only one rally for next weekend:

>The Radio Society of Great Britain National Mobile Rally will take place on
>Sunday the 18th of July at Woburn Park, near the famous Abbey in Bedfordshire.
>Leave the M1 via junction 13, whether arriving from the North or South and not
>12 as signposted, and follow the signposts to Woburn Abbey. Watch out for the
>RSGB signs. Do not follow the signs to the Game Reserve or the Wild Animal
>Kingdom. Doors open at 10.00am. The rally features a large trade exhibition,
>an RSGB Bookstall and enquiries stand, a BARTG stall and a members mart area
>all under cover. All the normal Woburn attractions will be available at a
>small extra charge. Refreshments are available nearby. See July Radcom page 41
>for full details and a map of the surrounding area. For further information
>contact Norman Miller, G3MVV on 0277 225563.

Would it be at all possible for the entry (and other)
fees for these rallies to be published in advance. It
would be useful to know in advance whether you can afford
to go.

Regards

Alan Holmes

Date: Wed, 14 Jul 93 07:18:36 GMT

From: wupost!csus.edu!netcom.com!netcomsv!bongo!skyld!jangus@uunet.uu.net
Subject: special abbreviation?
To: info-hams@ucsd.edu

While watching Disney cartoons this morning, one of the episodes was with Goofy as a railroad station master. The cartoon opens with him sitting in front of a telegraph sounder.

"dah dit dah dit dah dah dit dah"
"dah dit dah dit dah dah dit dah"
"dit"

Goofy writes the following; "Put magicians trunk on board train."

Funny, I don't remember seeing **that** abbreviation in the handbook.

J. Angus: jangus@skyld.tele.com -- "Als ik Kan", Gustav Stickley
US Mail: PO Box 4425 Carson, CA 90749-4425 1 (310) 324-6080

Date: 14 Jul 93 12:44:11 GMT
From: elroy.jpl.nasa.gov!swrinde!gatech!concert!duke!news.duke.edu!ee.ee.duke.edu!
jbs@ames.arpa
Subject: TS-50
To: info-hams@ucsd.edu

In article <1993Jul14.014035.17371@trl.oz.au> handers@rhea.trl.OZ.AU (Howard Anders) writes:

>Has anyone had any experience with the new **small** Kenwood TS-50 HF
>mobile rig?? I'd love to buy one because they are so small and compact,
>ideal for backpacking, portable, mobile use. However according to a review
>I read in "Radio Communication" the Rx leaves a little bit to be desired &

I haven't had experience myself, but have heard from two different people that it draws about 2 amps on receive, which would make it less than desireable for backpacking and portable battery-powered operation. I've been misinformed on other things before, though, so you might want to check this out for yourself before taking my second-hand word on it.

-joe

--

 You spend the night
 Like you were spending a dime
 - Lyle Lovett

Date: 14 Jul 1993 13:39:12 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!noc.near.net!
jericho.mc.com!fugu!levine@network.UCSD.EDU
Subject: Yaesu FT-530 or Alinco DJ-580T?
To: info-hams@ucsd.edu

In article FLF@murdoch.acc.Virginia.EDU, jeg7e@livia.acs.Virginia.EDU (Jon Gefaell) writes:

>In article <21ulmt\$4jn@jericho.mc.com> levine@mc.com writes:

>>

>>>

>>>How do you enable tone burst? I called Yaesu a few months ago and they had
>>>no idea, and I haven't seen a mod to do that elsewhere, only the extended
>>>transmit and receive mods (which were, as you say, easy, but you need a
>>>soldering iron with a tiny tip).

>>>Post Office Box Box 281107 San Francisco, California 94128 USA

>

>>Enable tone burst by jumping pad 13. Then you push the button called
>>Monitor(Burst) described on page 6 of the manual (RTFM).

>

>Wrong. jumper pad 13 is closed from the factory. Removing this pad gives
>extended tx/rx, removing pad 15 when pad 13 is removed removes tx, but
>leaves rx enabled.

>

>Perhaps you meant another pad?

>

>>Yes, use a small tip low power soldering iron and trim some solder-wick
>>so that the end of the piece is about 1/16" and that will suck up the
>>solder bridge joining pad 12 nicely with no mess.

>

>Jumper 12?

>

>>I got the mod sheet from HRO when I bought the HT.

>

>The first mod sheet HRO had talked about J13, but then they sent
>out an update which was for extended rx only (i.e. it said to
>remove both 13 AND 15) but didn't mention just removing 13 for
>ext. tx.

>

>I'd appreciate it if you could post the details of the mod sheet you
>received if it differs from the above, especially useful would be a
>mod to eliminate the fixed 12.5Kc step in the 800-950 range, even
>nicer would be something enabling a 30Kc step. Of course, I don't
>know how that would be useful, but it would be nice to have :) :) :)

>

>--

> -----

```
> \ \ / Jon Gefaell, Computer Systems Engineer      | Amateur Radio - KD4CQY
> \ \ / Information Technology and Communications    | -Will chmod for food-
> \ \ / The University of Virginia, Charlottesville | Hacker@Virginia.EDU
>The opinions expressed herein are not intended to be construed as those of UVA
```

You are correct, I should have said REMOVE jumper 13 to get rx 110-180, 300-500, and 800-950. Also tx 130-180 and 400-472.

However the mod sheet DOES say jump pad 12 for tone burst.

I will gladly send a copy of it to anyone who sends me a sase.
CBA for KD1GG
Bob

Date: 14 Jul 93 11:51:42 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
newsserver.jvnc.net!netnews.upenn.edu!gopher.cs.uofs.edu!bill@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1993Jul12.163035.5507@combdyn.com>,
<1993Jul13.115246.15217@linus.mitre.org>, <21uuu1\$sk0@cville-srv.wam.umd.edu>edu
Subject : Re: Channel 6 interference

In article <21uuu1\$sk0@cville-srv.wam.umd.edu>, ham@wam.umd.edu (Scott Richard Rosenfeld) writes:

```
|>
|>      I have heard of CB'ers hooking up their radios to the cable, and
|>      being able to talk all over the city with (WOW!) no interference!
|>
```

They wouldn't get past the first line amplifier in either direction.
And on most cable systems, that means less range than they would get
with a coat hanger sticking out of the antenna jack on the back of the
radio.

bill KB3YV

--
Bill Gunshannon | "There are no evil thoughts, Mr. Rearden" Francisco
bill@cs.uofs.edu | said softly, "except one; the refusal to think."
University of Scranton |
Scranton, Pennsylvania | #include <std disclaimer.h>

Date: 14 Jul 1993 09:03:25 -0400
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
darwin.sura.net!udel!news.intercon.com!panix!not-for-mail@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1993Jul9.192904.1528@pixar.com>,
<1993Jul13.165106.1248@koccrsv01.delcoelect.com>,
<1993Jul14.123531.232@rsg1.er.usgs.gov>
Subject : Re: America's Technology Store (was: new Radio Shack HT)

In article <1993Jul14.123531.232@rsg1.er.usgs.gov> bodoh@dgg.cr.usgs.gov (Tom Bodoh) writes:

>About every other time I go into Radio Shaft, I ask them to point me towards
>such-and-such, and they tell me they don't carry it. I then flip open their
>catalog, mash their nose into it... and then tell them fetch!

>

>It is really aggravating sometimes. Even worse than the ones that don't know
>anything are the ones that think they know everything. Radio Shack should
>consider some type of incentive to learn - such as a 50 cent per hour raise
>for every grade of ham license starting with tech. I find that they have
>some fairly decent products - but they need to raise their employee knowledge
>level...

Someone on the Fidonet SW echo once posted a neat strategy for disposing of
Radio Shaft salesdroids.

He said he carries in his pocket the most ancient, corroded, unusual looking
piece of hardware extracted from a turn-of-the-century radio. Whne hounded
by the sales type, he extracts this from his pocket, shoves it in his face, and
asks, "Do you have a replacement for THIS?". The salesdroid walks away mumbling
and he can then browse the store in peace.

--

Mike Schuster | schuster@panix.com | 70346.1745@CompuServe.COM
----- | schuster@shell.portal.com | GENie: MSCHUSTER

Date: Wed, 14 Jul 1993 12:35:31 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
darwin.sura.net!rsg1.er.usgs.gov!dgg.cr.usgs.gov!bodoh@network.UCSD.EDU
To: info-hams@ucsd.edu

References <930707.182152.6c2.rusnews.w165w@garlic.sbs.com>,
<1993Jul9.192904.1528@pixar.com>,
<1993Jul13.165106.1248@koccrsv01.delcoelect.com>doh

Subject : Re: America's Technology Store (was: new Radio Shack HT)

In article <1993Jul13.165106.1248@kocrsv01.delcoelect.com>,
c2xjcb@kocrsv01.delcoelect.com (James Bach) writes:

|>
|> I'm sure it was just a case of mis-understanding what I said, but last
|> night I went into Radio Shaft to buy a 6V lantern battery (the large
|> "brick" with the spring posts on top) . . . the sale person "puppy
|> dogged" up to me and asked "Is there anything I can help you find?" .
|> . . to which I replied "6V lantern batteries!". . . he immediately
|> walked over to and reached towards the flashlight BULBS and asked "Is
|> it a screw-in or a bayonet base?". When I repeated "Batteries" he
|> stopped for a few seconds, so I added "The thing that SUPPLIES the
|> power, not USES it!" and he finally got it!
|> --
|> James C. Bach Ph: (317)-451-0455 The views & opinions
expressed

--
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such-and-such, and they tell me they don't carry it. I then flip open their
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anything are the ones that think they know everything. Radio Shack should
consider some type of incentive to learn - such as a 50 cent per hour raise
for every grade of ham license starting with tech. I find that they have
some fairly decent products - but they need to raise their employee knowledge
level...

+++++
+ Tom Bodoh - Sr. systems software engineer, Hughes STX, NOX?? (in the mail) +
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)

+
+ "Welcome back my friends to the show that never ends!" EL&P
+

+++++

End of Info-Hams Digest V93 #853
